

U.S. National Phase of International Application No. PCT/SE2004/000424

Inventor: Jan KASSIBRAHIM

Title: A SET OF TEATCUPS, AND A MILKING MEMBER

Preliminary Amendment

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A milking device operable in a milking state and a cleaning state, the device including:

a milk-transporting member (1), which includes at least one teatcup (2) to be attached to a teat of an animal to be milked and is arranged to permit the transporting of milk from the teat to a milk-collecting member (4) during the milking state, wherein the milk-transporting member (1) is connectable to a relatively low pressure (5) for achieving said transporting by sucking milk from the teat to the milk-collecting member (4) via the milk-transporting member (1) during the milking state; and

a gas conduit (11) for the introduction of a gas into the milk-transporting member (1) during the milking state in order to enhance said transporting of milk, wherein the gas conduit (11) has a first end (12) connected to the milk transporting member (1) and [,] includes a gas inlet member (15) for the introduction of said gas into the gas conduit (11),

~~characterised in that~~ wherein the gas conduit (11), beyond the gas inlet member (15), has a second end (13) which is connectable to a relatively low pressure (5) for permitting a flow of a cleaning fluid from the milk-transporting member (1) through the gas conduit (11) during the cleaning state.

2. (currently amended) A milking device according to claim 1, ~~characterised in that~~ wherein the gas inlet member (15) includes an opening [,] which communicates with a relatively high pressure that is higher than said relatively low pressure.

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3. (currently amended) A milking device according to claim 2, ~~characterized in that~~ wherein said relatively high pressure is formed by the surrounding environment (E).

4. (currently amended) A milking device according to ~~any one of the preceding claims, characterised in that~~ claim 1, wherein the gas inlet member (15) is provided at a distance from the first end and the milk-transporting member (1).

5. (currently amended) A milking device according to ~~any one of the preceding claims, characterised in that~~ claim 1, wherein the relatively low pressure to the milk-transporting member (1) and the relatively low pressure to the gas conduit are provided by at least one vacuum pump (5).

6. (currently amended) A milking device according to claim 5, ~~characterised in that~~ wherein the vacuum pump is connected to the milk-collecting member (4) via a vacuum conduit (6).

7. (currently amended) A milking device according to ~~any one of the preceding claims, characterised in that~~ claim 1, wherein the device includes a cleaning device (19) arranged to deliver the cleaning fluid to the teatcup (2) for permitting said flow through the gas conduit (11) during the cleaning state.

8. (currently amended) A milking device according to claim 7, ~~characterised in that~~ wherein the cleaning device (19) is arranged to deliver the cleaning fluid to the teatcup (2) for permitting said flow to the milk-collecting member (4).

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9. (currently amended) A milking device according to claim 8, ~~characterised in that~~ wherein the cleaning device (19) is arranged to deliver the cleaning fluid to the teatcup (2) for permitting said flow through the milk-transporting member (1).

10. (currently amended) A milking device according to ~~any one of claims 7 to 9, characterised in that~~ claim 7, wherein the cleaning device (19) includes a cleaning nozzle (22) to be introduced into the teatcup (2), and a supply unit (21) for supplying the cleaning fluid to the cleaning nozzle (22) for said delivery of the cleaning fluid.

11. (currently amended) A milking device according to ~~any one of the preceding claims, characterized in that~~ claim 1, wherein the gas conduit (11) includes a valve (18) arranged between the gas inlet member and the second end (13), wherein the valve (18) is adapted to be closed during the milking state and to be open during at least a part of the cleaning state.

12. (currently amended) A milking device according to ~~any one of the preceding claims, characterised in that~~ claim 1, wherein the first end (12) of the gas conduit (11) is connected to the teatcup (2).

13. (currently amended) A milking device according to ~~any one of the preceding claims, characterised in that~~ claim 1, wherein the milk-transporting member (1) also includes at least one milk hose (3), wherein the first end (12) of the gas conduit (11) is connected to the milk hose (3).

14. (currently amended) A milking device according to ~~any one of the preceding claims, characterised in that~~ claim 1, wherein the milk-transporting member (1) also includes a claw (30), wherein the first end (12) of the gas conduit (11) is connected to the claw (30).

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15. (currently amended) A method of handling a milking device, the milking device including at least one milk-transporting member including at least one teatcup, during a milking state and a cleaning state, the method including the steps of:

attaching the teatcup of the milk-transporting member to a teat of an animal to be milked[[,]];

transporting milk during the during the milking state from the teat to a milk-collecting member by sucking milk to the milk-collecting member via the teatcup and the milk-transporting member by applying a relatively low pressure to the milk-transporting member; and

supplying a gas into the milk-transporting member via a gas conduit in order to permit said transporting of milk, wherein the gas conduit has a first end which is connected to the milk-transporting member and a second end and further includes a gas inlet member for the introduction of said gas into the gas conduit positioned between the first end and the second end[[,]];

and including characterised by the further step of supplying a cleaning fluid from the milk-transporting member through the gas conduit during the cleaning state by applying a relatively low pressure to the gas conduit at [[a]] the second end of the gas conduit beyond the gas inlet member.

16. (currently amended) A method according to claim 15, ~~characterised by~~ including the further step of communicating the gas inlet member via an opening with a relatively high pressure that is higher than said relatively low pressure.

17. (original) A method according to claim 16, wherein said high pressure is formed by the surrounding environment.

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18. (currently amended) A method according to ~~any one of claims 15 to 17~~, characterised by claim 15, including the further step of delivering the cleaning fluid by means of a cleaning device to the teatcup for permitting said flow through the gas conduit during the cleaning state.

19. (currently amended) A method according to claim 18, ~~characterised by~~ including the further step of delivering the cleaning fluid to the teatcup (2) for permitting said flow to the milk-collecting member.

20. (currently amended) A method according to claim 19, ~~characterised by~~ including the further step of delivering the cleaning fluid to the teatcup (2) for permitting said flow through the milk-transporting member to the milk-collecting member.

21. (currently amended) A method according to ~~any one of claims 15 to 20~~ claim 15, wherein the gas conduit includes a valve arranged between the gas inlet member and the second end, the method including the further steps of:

closing the valve during the milking state and opening the valve during at least a part of the cleaning state.

22. (currently amended) A method according to ~~any one of claims 15 to 21~~ claim 15, wherein the cleaning device includes a cleaning nozzle (22) to be introduced into the teatcup (2), and a supply unit (21), characterised by including the further steps of:

supplying said cleaning fluid by means of the supply unit to a cleaning nozzle, and delivering said fluid into the teatcup by means of the cleaning nozzle.